

FOR ADMINISTRATIVE USE

CDC POLIOMYELITIS SURVEILLANCE REPORT

NO. 132 OCTOBER 25, 1957

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Public Health Service Bureau of State Services

COMMUNICABLE DISEASE CENTER

Robert J. Anderson, Chief

Surveillance Section

Mario Pizzi, M.D., Chief

Poliomyelitis Surveillance Unit

50 Seventh Street, N. E.

Atlanta, Georgia

TABLE OF CONTENTS

- A. CURRENT POLIOMYELITIS MORBIDITY TRENDS
- B. ROUTINE POLIOMYELITIS SURVEILLANCE

SPECIAL NOTE

Information presented in this report represents a summary of preliminary data regarding poliomyelitis and polio-like diseases reported to CDC from State Health Departments, participating diagnostic and reference laboratories, Epidemic Intelligence Service Officers, National Office of Vital Statistics, and other pertinent sources. It is to be emphasized that these data are provisional and intended for the information and administrative use of physicians involved in investigation and control of poliomyelitis and polio-like diseases. Anyone desiring to quote this information is urged to contact the person or persons responsible for the items reported in order that the exact interpretation of the report and the current status of the investigation be obtained.

This Report Prepared by:

Lauri D. Thrupp, M.D.
with assistance from Statistics Section
Communicable Disease Center

A. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 112 poliomyelitis cases was reported to the National Office of Vital Statistics for the week ending October 19, representing a continued decline in total incidence from the 211 and 169 cases reported respectively for the weeks ending October 5th and 12th. Figure 1 presents the national poliomyelitis incidence curves by weeks for the years 1947, 1952 through 1956, and to date in 1957. The total of 112 cases is lower than that reported for the comparable week in any of the years from 1940 to 1956. Cumulative totals to date this year are lowest since 1942. Incidence for the 42nd week, cumulative totals and yearly totals are presented below for the years 1942, 1947, 1952, 1955, 1956 and 1957.

	<u>1957</u>	<u>1956</u>	<u>1955</u>	<u>1952</u>	<u>1947</u>	<u>1942</u>
<u>42nd Week</u>	112	397	791	2419	415	165
<u>Cumulative through</u> <u>42nd week</u>	5373	13584	25764	47483	8809	3376
<u>Total for the Year</u>	-	15463	29324	57440	10789	4190

Table 1 presents total reported cases by state and region, and paralytic cases by region, for the past six weeks and for comparable six-week periods of the last four years. Of the 112 total notifications last week, 61 were recorded as paralytic, a decrease from the 88 and 103 paralytic cases reported the preceding two weeks. A larger drop was noted in nonparalytic disease, from 64 to 33 cases. The number with paralytic status unspecified was virtually unchanged, 18 instead of 17.

The North Central region reported the largest total number of cases, 41, including 16 paralytic. The 71 remaining cases were well distributed among the other geographic regions with the exception of the North West, where no cases were reported last week.

B. ROUTINE POLIOMYELITIS SURVEILLANCE

1. Under-30-Day Vaccinated Cases - During the week ending October 23, two paralytic and three nonparalytic poliomyelitis cases were reported to PSU with onset of symptoms within 30 days of a vaccine inoculation.

The two paralytic cases occurred in Louisville, Kentucky. Onset of illness in a 4½ year old male was 11 days following second inoculation of vaccine (site of inoculation and manufacturer unknown). The child subsequently developed bulbospinal paralytic disease, with the spinal paralysis including the right arm and both legs. In the second child, aged 14 months, symptoms were noted 29 days following first inoculation of

vaccine (site and manufacturer unknown) and paresis of the left leg subsequently developed. Type I poliovirus was isolated by Dr. A. Steigman's Laboratory in stool specimens from both patients.

An additional suspect polio case was reported from Idaho in a $6\frac{1}{2}$ year old male, with onset of illness 12 days following third inoculation of vaccine. Right leg paresis developed, but the final diagnosis was determined to be mumps encephalitis.

2. Vaccine Distribution - Current and cumulative vaccine releases, shipments and inventory estimates are presented in Table 2.

Figure 1: CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1956

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS

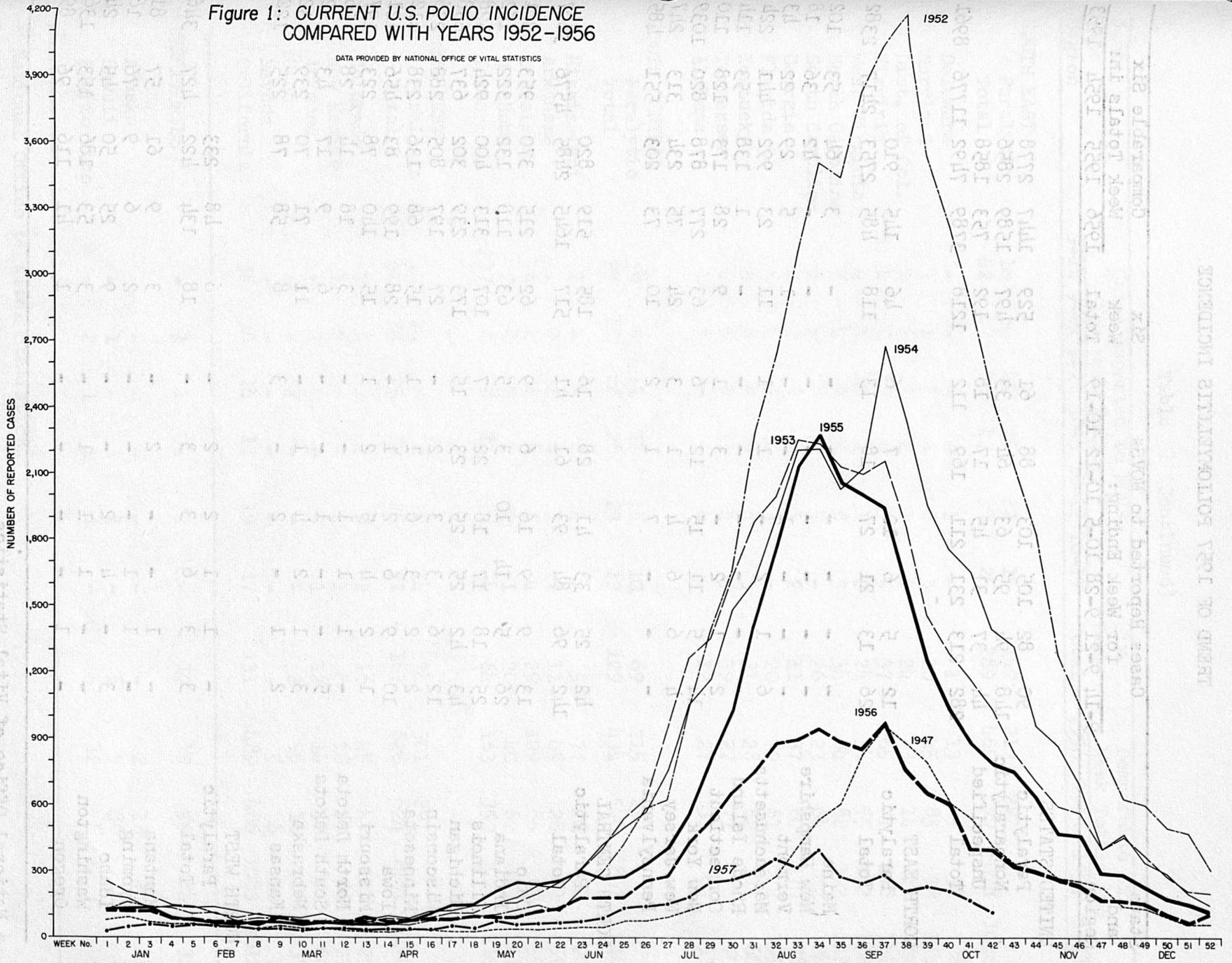


Table 1

TREND OF 1957 POLIOMYELITIS INCIDENCE

State and Region	Cases Reported to NOVS* for Week Ending:						Six Week Total	Comparable Six Week Totals in:			
	9-14	9-21	9-28	10-5	10-12	10-19		1956	1955	1954	1953
UNITED STATES											
Paralytic	90	82	105	103	88	61	529	1447	2778		
Nonparalytic	148	94	95	63	64	33	497	1589	2856		
Unspecified	44	37	31	45	17	18	192	753	1858		
Total	282	213	231	211	169	112	1218	3789	7492	11776	8961
NORTH EAST											
Paralytic	12	5	6	10	7	6	46	145	910		
Total	26	13	21	27	18	13	118	485	2753	2417	2382
Maine	-	-	-	-	-	-	-	3	64	53	102
New Hampshire	-	-	-	-	-	-	-	-	42	36	18
Vermont	-	-	-	1	-	-	1	5	29	22	43
Massachusetts	6	1	2	-	1	1	11	23	992	441	224
Rhode Island	-	-	-	-	-	-	-	1	138	53	114
Connecticut	2	1	2	-	3	1	9	28	173	128	110
New York	14	5	11	15	12	6	63	277	878	820	1039
New Jersey	4	6	6	4	1	3	24	75	234	313	247
Pennsylvania	-	-	-	7	1	2	10	73	203	551	485
NORTH CENTRAL											
Paralytic	42	25	33	41	28	16	185	519	820		
Total	142	96	84	93	61	41	517	1645	2485	4576	3607
Ohio	13	9	9	16	6	9	62	215	370	953	801
Indiana	26	5	14	10	3	5	63	118	132	322	152
Illinois	25	18	17	18	22	7	107	313	400	924	528
Michigan	43	42	25	25	23	15	173	239	302	637	658
Wisconsin	12	6	3	3	2	-	27	197	805	288	276
Minnesota	2	2	3	6	1	1	15	68	136	238	612
Iowa	10	9	6	2	1	-	28	199	83	456	121
Missouri	1	2	4	5	2	1	15	140	78	223	197
North Dakota	-	1	1	1	-	-	3	18	14	28	56
South Dakota	5	-	-	1	-	-	6	9	17	43	52
Nebraska	3	1	2	4	1	-	11	71	70	239	32
Kansas	2	1	-	2	-	3	8	58	78	225	122
NORTH WEST											
Paralytic	-	1	1	2	2	-	6	48	233		
Total	3	3	6	3	3	-	18	134	422	427	346
Montana	-	1	-	-	2	-	3	9	61	57	81
Wyoming	-	1	1	-	-	-	2	6	9	76	16
Idaho	3	-	4	2	-	-	9	25	50	45	24
Washington	-	-	1	1	1	-	3	53	186	153	136
Oregon	-	1	-	-	-	-	1	41	116	96	89

* National Office of Vital Statistics.

(CONTINUED ON NEXT PAGE)

Table 1 (Continued)

State and Region	Cases Reported to NOV5* for Week Ending:						Six Week Total	Comparable Six Week Totals in:			
	9-14	9-21	9-28	10-5	10-12	10-19		1956	1955	1954	1953
SOUTH EAST											
Paralytic	16	26	45	25	22	15	149	219	292		
Total	42	47	73	43	39	25	269	465	699	2028	1038
Delaware	-	-	-	-	1	-	1	13	5	35	8
Maryland	1	1	3	-	2	3	10	45	83	98	154
Dist. of Col.	6	6	7	2	1	2	24	3	14	27	12
Virginia	4	5	10	8	5	5	37	65	71	198	148
West Virginia	4	1	12	4	1	2	24	34	55	152	122
North Carolina	5	4	9	5	8	3	34	84	82	192	112
South Carolina	5	5	8	3	5	-	26	23	64	62	24
Georgia	2	2	3	1	1	2	11	37	80	170	76
Florida	6	4	3	4	3	-	20	79	61	612	199
Kentucky	4	6	9	5	4	3	31	28	82	244	60
Tennessee	4	6	9	11	4	5	39	27	71	176	70
Alabama	1	7	-	-	4	-	12	27	31	62	53
SOUTH CENTRAL											
Paralytic	8	9	11	17	14	10	69	215	232		
Total	27	19	22	26	23	12	129	434	546	847	414
Mississippi	1	-	-	1	1	2	5	77	20	74	20
Arkansas	1	2	2	4	1	1	11	45	28	63	59
Louisiana	6	4	6	4	5	4	29	109	86	86	55
Oklahoma	2	5	6	4	2	1	20	40	62	109	61
Texas	17	8	8	13	14	4	64	163	350	515	219
SOUTH WEST											
Paralytic	12	16	9	8	15	14	74	301	291		
Total	42	35	25	19	25	21	167	626	624	1481	1174
Colorado	7	1	3	2	1	2	16	45	49	123	29
New Mexico	1	2	-	-	2	1	6	18	27	86	27
Arizona	-	2	6	-	3	1	12	14	38	51	60
Utah	-	-	2	-	-	-	2	55	16	118	37
Nevada	-	-	-	-	-	-	-	5	8	20	9
California	34	30	14	17	19	17	131	489	486	1083	1012
TERRITORIES											
	-	3	1	4	2	-	10	19	59	84	12
Alaska	-	-	-	-	-	-	-	2	18	71	2
Hawaii	-	1	-	3	1	-	5	5	36	10	4
Puerto Rico	-	2	1	1	1	-	5	12	5	3	6

* National Office of Vital Statistics.

(Continued) Table 2

POLIOMYELITIS VACCINE REPORT through 10-18-57

(Data provided by the Polio Vaccine Activity, BSS, USPHS.
Listed in 1000's of cc's of Net Bottled Vaccine)

VACCINE RELEASES

Period	Lilly	Parke, Davis	Pitman-Moore	Wyeth	Sharpe & Dohme	Cutter
July	5,047	1,843	1,239	378	1,015	-
August	5,840	3,704	1,339	394	864	-
September	10,332	2,603	2,664	257	1,028	-
October 1-18	-	1,193	1,347	-	515	-
Cumulative to date	129,915	33,928	33,538	9,623	10,921	401

VACCINE SHIPPED

Period	NFIP	Public Agencies	Commercial Channels	Export	Total
1955	13,541	7,893	6,233	-	27,667
1956	194	45,588	24,784	6,477	77,043
1957					
January-June	151	36,044	23,760	6,385	66,970
July	-	4,642	4,903	327	9,871
August	-	4,133	4,037	1,099	9,269
September	1	3,036	3,654	1,272	7,962
October 4-11	1	42	59	284	386
Cumulative Totals	13,887	102,008	67,429	15,845	199,170

VACCINE INVENTORY

Week Ending	Unshipped by Manufacturers	In State and Local Health Departments	In Commercial Channel and Physicians Office	Total
9-27-57	13,342	5,559	3,941	22,842
10-4-57	16,487	5,511	5,391	27,390
10-11-57	16,722	5,476	4,786	26,984